

# N2XY

## CU/XLPE/ PVC - 0.6/1 kV Cable

### CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1 , IEC 60228, IEC 60332-1-2



### APPLICATION

N2XY is used as a power cable for energy supply in static installations, indoors, outdoors, underground and in concrete where mechanical damages are not to be expected.

### CONSTRUCTION

#### Conductor

Class 2 stranded copper conductors

#### Insulation

XLPE (Cross-linked polyethylene)

#### Sheath

PVC (Polyvinyl Chloride)

### CHARACTERISTICS

#### Voltage Rating (U<sub>0</sub>,U) (Um)

0.6/1 (1.2) kV

#### Test Voltage

8.4 KV

#### Temperature Rating

-20°C to +90°C

#### Short Circuit Temperature

+250°C

#### Minimum Bending Radius

12 x Overall Diameter **for Multi Core**

15 x Overall Diameter **for Single Core**

#### Sheath Color

Black

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### Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C  Ω.km	Short- circuit Curre nt  KA 1.sec Approx	CURRENT CARRYING CAPACITY  Amps  Approx				Capacitance  μf.km Approx	Reactance  Ω.km  Approx		OVERALL DIAMETER  Mm Approx	WEIGHT  kg.km Approx
	Conductor  mm <sup>2</sup>				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
1	16	RM.V	1.15	2.41	115	102	139	128	0.51	0.10	0.18	8.6	194
1	25	RM.V	0.727	3.73	149	139	179	173	0.50	0.10	0.18	10.2	287
1	35	RM.V	0.524	5.19	178	170	213	212	0.58	0.10	0.17	11.3	380
1	50	RM.V	0.387	7.37	211	208	251	258	0.60	0.09	0.16	12.5	493
1	70	RM.V	0.268	10.27	259	265	307	328	0.65	0.08	0.16	14.3	694
1	95	RM.V	0.193	13.88	310	326	366	404	0.76	0.08	0.16	16.2	941
1	120	RM.V	0.153	17.50	352	381	416	471	0.78	0.08	0.15	17.9	1176
1	150	RM.V	0.124	21.83	396	438	465	541	0.75	0.08	0.15	19.9	1451
1	185	RM.V	0.0991	26.87	449	507	526	626	0.73	0.08	0.15	22.0	1802
1	240	RM.V	0.0754	34.80	521	606	610	749	0.79	0.08	0.15	24.9	2345
1	300	RM.V	0.0601	43.44	587	697	689	864	0.83	0.07	0.15	27.1	2906
1	400	RM.V	0.0470	57.83	669	816	788	1018	0.86	0.07	0.15	30.9	3730
1	500	RM.V	0.0366	72.20	748	933	889	1173	0.89	0.07	0.15	34.8	4762
1	630	RM.V	0.0283	90.88	830	1050	1002	1350	0.96	0.07	0.15	40.5	6210

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	Conductor  mm <sup>2</sup>				Amps  Approx		Trefoil			Flat				Trefoil	Flat
					Ground	Air	Ground	Air							
2	1.5	RM	12.1	0.26	32	25	39	-	0.21	0.23	0.31	10.7	162		
2	2.5	RM	7.41	0.41	43	34	51	42	0.25	0.22	0.30	11.5	198		
2	4	RM	4.61	0.64	55	44	66	56	0.31	0.21	0.29	13.0	264		
2	6	RM	3.08	0.94	68	57	82	71	0.36	0.21	0.28	14.0	329		
2	10	RM	1.83	1.53	90	77	109	96	0.45	0.20	0.27	16.0	460		

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					Amps Approx					Ω.km			
	Conductor mm <sup>2</sup>				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3	1.5	RM	12.1	0.26	32	25	-	-	0.21	0.15	-	10.7	169
3	2.5	RM	7.41	0.41	43	34	-	-	0.25	0.14	-	12.1	226
3	4	RM	4.61	0.64	55	44	-	-	0.31	0.13	-	13.6	307
3	6	RM	3.08	0.94	68	57	-	-	0.36	0.12	-	14.8	389
3	10	RM	1.83	1.53	90	77	-	-	0.45	0.11	-	16.6	545
3	16	RM.V	1.15	2.41	115	102	-	-	0.51	0.10	-	18.4	749
3	25	RM.V	0.727	3.73	149	139	-	-	0.50	0.10	-	22.0	1115
3	35	RM.V	0.524	5.19	178	170	-	-	0.58	0.09	-	24.4	1451
3	50	SM	0.387	7.37	211	208	-	-	0.60	0.09	-	23.7	1509
3	70	SM	0.268	10.27	259	265	-	-	0.65	0.08	-	27.4	2122
3	95	SM	0.193	13.88	310	326	-	-	0.76	0.08	-	31.1	2878
3	120	SM	0.153	17.50	352	381	-	-	0.78	0.08	-	34.4	3600
3	150	SM	0.124	21.83	396	438	-	-	0.75	0.08	-	38.5	4449
3	185	SM	0.0991	26.87	449	507	-	-	0.73	0.08	-	42.7	5524
3	240	SM	0.0754	34.80	521	606	-	-	0.79	0.08	-	48.4	7199
3	300	SM	0.0601	43.44	587	697	-	-	0.83	0.08	-	53.8	8972

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NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C  Ω.km	Short- circuit Current  KA 1.sec  Approx	CURRENT CARRYING CAPACITY				Capacitance  μf.km  Approx	Reactance		OVERALL DIAMETER  Mm  Approx	WEIGHT  kg.km  Approx
					Amps		Amps			Ω.km			
	Approx				Approx		Approx			Trefoil	Flat		
	Ground	Air			Ground	Air	Ground	Air					
3+1	25+16	RM.V	0.727	0.26	143	130	-	-	0.50	0.09	0.17	23.1	1265
3+1	35+16	RM.V	0.524	0.41	173	160	-	-	0.58	0.09	0.17	25.1	1583
3+1	50+25	SM	0.387	0.64	205	195	-	-	0.60	0.09	0.16	25.6	1766
3+1	70+35	SM	0.268	0.94	252	247	-	-	0.65	0.08	0.16	29.6	2482
3+1	95+50	SM	0.193	1.53	303	305	-	-	0.76	0.08	0.16	33.5	3353
3+1	120+70	SM	0.153	2.41	346	355	-	-	0.78	0.08	0.16	37.3	4289
3+1	150+70	SM	0.124	3.73	390	407	-	-	0.75	0.08	0.16	41.3	5105
3+1	185+95	SM	0.0991	5.19	441	469	-	-	0.73	0.08	0.16	46.6	6468
3+1	240+120	SM	0.0754	7.37	511	551	-	-	0.79	0.08	0.16	52.6	8401
3+1	300+150	SM	0.0601	10.27	580	638	-	-	0.83	0.08	0.15	58.0	10419

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NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C  Ω.km	Short- circuit Curre nt  KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance  μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm <sup>2</sup>				Amps Approx					Ω.km Approx			
					Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	1.5	RM	12.1	0.26	30	24	-	-	0.21	0.14	-	12.0	209
4	2.5	RM	7.41	0.41	40	32	-	-	0.25	0.13	-	13.2	273
4	4	RM	4.61	0.64	52	42	-	-	0.31	0.12	-	14.7	363
4	6	RM	3.08	0.94	64	53	-	-	0.36	0.12	-	16.0	466
4	10	RM	1.83	1.53	86	73	-	-	0.45	0.11	-	18.5	685
4	16	RM.V	1.15	2.41	111	96	-	-	0.51	0.10	-	20.2	932
4	25	RM.V	0.727	3.73	143	130	-	-	0.50	0.10	-	24.1	1377
4	35	RM.V	0.524	5.19	173	160	-	-	0.58	0.09	-	26.7	1803
4	50	SM	0.387	7.37	205	195	-	-	0.60	0.08	-	26.2	1972
4	70	SM	0.268	10.27	252	247	-	-	0.65	0.08	-	30.8	2814
4	95	SM	0.193	13.88	303	305	-	-	0.76	0.07	-	34.8	3798
4	120	SM	0.153	17.50	346	355	-	-	0.78	0.07	-	38.5	4752
4	150	SM	0.124	21.83	390	407	-	-	0.75	0.07	-	43.1	5870
4	185	SM	0.0991	26.87	441	469	-	-	0.73	0.07	-	48.0	7320
4	240	SM	0.0754	34.80	511	551	-	-	0.79	0.07	-	54.3	9538
4	300	SM	0.0601	43.44	580	638	-	-	0.83	0.07	-	60.1	11885

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### Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps		Amps			Ω.km			
	Approx				Approx		Approx			Trefoil	Flat		
	Ground	Air			Ground	Air	Trefoil	Flat					
5	1.5	RM	12.1	0.26	30	24	-	-	0.21	0.14	-	13.0	87
5	2.5	RM	7.41	0.41	40	32	-	-	0.25	0.13	-	14.2	96
5	4	RM	4.61	0.64	52	42	-	-	0.31	0.12	-	15.8	108
5	6	RM	3.08	0.94	64	53	-	-	0.36	0.11	-	17.5	120
5	10	RM	1.83	1.53	86	73	-	-	0.45	0.11	-	20.1	140
5	16	RM.V	1.15	2.41	111	96	-	-	0.51	0.10	-	21.9	1136
5	25	RM.V	0.727	3.73	143	130	-	-	0.50	0.10	-	26.2	1688
5	35	RM.V	0.524	5.19	173	160	-	-	0.58	0.09	-	29.6	2251